



SEQUENCE LISTING

<110> Theres, Nikolaus

<120> PLANTS WITH CONTROLLED SIDE-SHOOT
FORMATION AND/OR ABSCISSION ZONE FORMATION

<130> 11216-002001

<140> 09/403,262

<141> 1999-10-15

<150> DE/197 15 700.9

<151> 1997-04-15

<150> PCT/DE98/01070

<151> 1998-04-15

<160> 14

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1729

<212> DNA

<213> Lycopersicon esculentum

<400> 1

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attgaatgat	atgttaggat	cctttgggtc	ttcatcatct	caatctcacc	ctcatcatga	180
tgaagaatct	tctgatcatc	atcaacagcg	tagattcacc	gctactgcta	caactatcac	240
caccaccacc	atcactacct	caccagctat	tcaaattccg	cagctactca	ttagctgtgc	300
ggagttgatt	tcgcagtcg	atttctcggc	cgcgaaaaga	ctccttacta	tattatcaac	360
taactcatct	ccttttggtg	attcaactga	acggttagtc	catcaattta	ctcgcgcact	420
ttcccttcgt	ctcaaccgct	atatatcgtc	aaccaccaat	catttcatga	cacctgttga	480
aacaactcca	actgattctt	cttcttcgtc	atcattagct	ctaattcaat	catcatactt	540
atctctaaac	caagttaccc	ctttcataag	gtttactcaa	ttaaccgcta	atcaagcgat	600
tttagaagcg	attaacggta	atcatcaagc	aatccacatc	gttgatttcg	acattaatca	660
cggggttcaa	tggccaccgt	taatgcaagc	actagctgat	cgttaccctg	ctcccaactct	720
tcgaatcacc	ggtactggaa	atgaccttga	tacccttcgt	agaacagggtg	atcgtttagc	780
taaatttgct	cactcattag	ggttgagatt	tcaattccat	cctctttata	tagccaataa	840
taaccacgat	cacgatgaag	atccttctat	tatttcctcc	attgtactac	tccctgatga	900
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agttgaacaa	gtgtgggttg	ggagagagat	tgttgatata	gttgcgatgg	aaggagataa	1200
aaggaaaagaa	agacatgaaa	ggtttagatc	atgggaagtt	atgttgagga	gttgtggatt	1260
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tcagagggta	attaagacta	ctgatagttt	aggagggatc	tgaagaaaac	gcgtggagtg	1500
aaaaccctaa	ataaccagat	tttctaata	agttgtagta	gtagaaattt	gcatggtgaa	1560
gaacaatatt	gaagagggtat	tgaaatttca	tgtttttttt	gttttactta	ttgatatgaa	1620

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TECH CENTER 1600/2900

Phe Ala Leu Ser Gln Ala Lys Leu Leu Leu Arg Leu His Tyr Pro Ser
 385 390 395 400
 Glu Gly Tyr Gln Leu Gly Val Ser Ser Asn Ser Phe Phe Leu Gly Trp
 405 410 415
 Gln Asn Gln Pro Leu Phe Ser Ile Ser Ser Trp Arg
 420 425

<210> 3
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 <213> Artificial Sequence

<220>
 <223> Primer for PCR

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<220>
 <223> Primer for PCR

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<210> 5
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 <223> Primer for PCR

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22

<210> 8

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<213> Artificial Sequence

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<223> Primer for PCR

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19

<210> 9

<211> 1296

<212> DNA

<213> Solanum tuberosum

<400> 9

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acaacgacct	caccagctat	tcaaatccgc	cagctactca	ttagctgtgc	ggagttgatt	180
tcgcgggtccg	atttctcggc	cgcgaaaaga	ctccttacca	tattatcaac	taactcttct	240
ccttttgggtg	attcaactga	acggttagtc	catcagttta	ctcgcgcact	ttcccttcgt	300
ctcaaccgct	atatatcgtc	aaccaccaat	catttcatga	cacctgttga	aacaactcca	360
actgattctt	catcttcggt	gccatcgtca	tcattagctc	taattcaatc	atcatatcat	420
tctctaaaatc	aagttacccc	ttttataagg	tttactcaat	taaccgctaa	tcaagcgatt	480
ttagaagcga	ttaacggtaa	tcatacaagca	atccacatcg	ttgatttcga	cattaatcac	540
gggggttcaat	ggccaccgtt	aatgcaagca	ctagctgata	gttaccctgc	tcctactctt	600
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gaagcaaata	ataaccatcc	tcttttttta	caaagattta	tcgaggcggt	ggattattat	960
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aggaaagaaa	gacatgaaag	gtttagatca	tgggaagtta	tggtgaggag	ttgtggattt	1140
agtaatgttg	ctttaagccc	ttttgcatta	tcacaagcta	agcttctttt	gagactacat	1200
tatccttctg	aaggctatca	actcggagtt	tcgagtaatt	ctttcttctt	aggttggcaa	1260
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<210> 10

<211> 431

<212> PRT

<213> Solanum tuberosum

<400> 10

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Asp	Glu	Glu	Ser	Ser	Asp	His	His	Gln	Arg	Arg	Arg	Phe	Thr	Ala	Thr
			20					25					30		
Thr	Thr	Thr	Ile	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Ser	Pro	Ala	Ile	Gln
			35				40						45		

Ile	Arg	Gln	Leu	Leu	Ile	Ser	Cys	Ala	Glu	Leu	Ile	Ser	Arg	Ser	Asp
50						55					60				
Phe	Ser	Ala	Ala	Lys	Arg	Leu	Leu	Thr	Ile	Leu	Ser	Thr	Asn	Ser	Ser
65					70					75					80
Pro	Phe	Gly	Asp	Ser	Thr	Glu	Arg	Leu	Val	His	Gln	Phe	Thr	Arg	Ala
			85						90					95	
Leu	Ser	Leu	Arg	Leu	Asn	Arg	Tyr	Ile	Ser	Ser	Thr	Thr	Asn	His	Phe
			100					105					110		
Met	Thr	Pro	Val	Glu	Thr	Thr	Pro	Thr	Asp	Ser	Ser	Ser	Ser	Leu	Pro
		115					120						125		
Ser	Ser	Ser	Leu	Ala	Leu	Ile	Gln	Ser	Ser	Tyr	His	Ser	Leu	Asn	Gln
	130					135					140				
Val	Thr	Pro	Phe	Ile	Arg	Phe	Thr	Gln	Leu	Thr	Ala	Asn	Gln	Ala	Ile
145					150					155					160
Leu	Glu	Ala	Ile	Asn	Gly	Asn	His	Gln	Ala	Ile	His	Ile	Val	Asp	Phe
				165					170					175	
Asp	Ile	Asn	His	Gly	Val	Gln	Trp	Pro	Pro	Leu	Met	Gln	Ala	Leu	Ala
		180						185					190		
Asp	Arg	Tyr	Pro	Ala	Pro	Thr	Leu	Arg	Ile	Thr	Gly	Thr	Gly	Asn	Asp
	195						200					205			
Leu	Asp	Thr	Leu	Arg	Arg	Thr	Gly	Asp	Arg	Leu	Ala	Lys	Phe	Ala	His
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Ser	Leu	Gly	Leu	Arg	Phe	Gln	Phe	His	Pro	Leu	Tyr	Ile	Ala	Asn	Asn
225					230					235					240
Asn	Arg	Asp	His	Gly	Glu	Asp	Pro	Ser	Ile	Ile	Ser	Ser	Ile	Val	Leu
			245						250					255	
Leu	Pro	Asp	Glu	Thr	Leu	Ala	Ile	Asn	Cys	Val	Phe	Tyr	Leu	His	Arg
		260						265					270		
Leu	Leu	Lys	Asp	Arg	Glu	Lys	Leu	Arg	Ile	Phe	Leu	His	Arg	Val	Lys
	275						280					285			
Ser	Met	Asn	Pro	Lys	Ile	Val	Thr	Ile	Ala	Glu	Lys	Glu	Ala	Asn	His
	290					295					300				
Asn	His	Pro	Leu	Phe	Leu	Gln	Arg	Phe	Ile	Glu	Ala	Leu	Asp	Tyr	Tyr
305					310					315					320
Thr	Ala	Val	Phe	Asp	Ser	Leu	Glu	Ala	Thr	Leu	Pro	Pro	Gly	Ser	Arg
			325						330					335	
Glu	Arg	Met	Thr	Val	Glu	Gln	Val	Trp	Phe	Gly	Arg	Glu	Ile	Val	Asp
		340						345					350		
Ile	Val	Ala	Met	Glu	Gly	Asp	Lys	Arg	Lys	Glu	Arg	His	Glu	Arg	Phe
	355						360					365			
Arg	Ser	Trp	Glu	Val	Met	Leu	Arg	Ser	Cys	Gly	Phe	Ser	Asn	Val	Ala
	370					375					380				
Leu	Ser	Pro	Phe	Ala	Leu	Ser	Gln	Ala	Lys	Leu	Leu	Leu	Arg	Leu	His
385					390					395					400
Tyr	Pro	Ser	Glu	Gly	Tyr	Gln	Leu	Gly	Val	Ser	Ser	Asn	Ser	Phe	Phe
			405						410					415	
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 cartggccnc cnytnatgca

20

<210> 12
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<220>
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<221> misc_feature
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20

<210> 13
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 <213> Arabidopsis thaliana

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 ctccaattcc agtttcacac gctagtgatc gtagaagaag atctcgccgg acttttgcta 180
 cagatccgat tgttagctct ctcagccgta caaggagaga ccattgccgt caattgtgtt 240
 cacttcctcc acaaaatatt taacgacgat ggagatatga tcggtcactt cttgtcagcg 300
 atcaagagct taaactctag aatcgttaca atggcagaga gagaagctaa tcatggagat 360
 cactcgttct tgaatagatt ctctgaggca gtggatcatt acatggcgat ctttgattcg 420
 ttggaagcga cgttgccgcc aaatagccga gagagactaa ccctagagca acggtgggtc 480
 ggtaaggaga ttttggtatg tgtggcggcg gaagagacgg agagaaagca aagacatcgg 540
 aggtttgaga tttgggaaga gatgatgaag aggttttggt tcgttaacgt tcctattgga 600
 agctttgctt tgtctcaagc taagcttctt cttagacttc attatccttc agaaggttat 660
 aatcttcagt tccttaacaa ttctttg 687

<210> 14
 <211> 229
 <212> PRT
 <213> Arabidopsis thaliana

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 Gly Cys Gly Arg Asp Val Thr Gly Leu Asn Arg Thr Gly Asp Arg Leu
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 Thr Arg Phe Ala Asp Ser Leu Gly Leu Gln Phe Gln Phe His Thr Leu
 35 40 45
 Val Ile Val Glu Glu Asp Leu Ala Gly Leu Leu Leu Gln Ile Arg Leu
 50 55 60
 Leu Ala Leu Ser Ala Val Gln Gly Glu Thr Ile Ala Val Asn Cys Val
 65 70 75 80

[illegible]